

J.P. Morgan Healthcare Conference January 7, 2019

Forward-looking statements



Statements in this document that are not strictly historical, including statements regarding future clinical trials and commercial launches, future financial condition and operating results, economic, business, competitive and/or regulatory factors affecting Mallinckrodt's businesses and any other statements regarding events or developments that the company believes or anticipates will or may occur in the future, may be "forward-looking" statements within the meaning of the Private Securities Litigation Reform Act of 1995, and involve a number of risks and uncertainties. There are a number of important factors that could cause actual events to differ materially from those suggested or indicated by such forward-looking statements and you should not place undue reliance on any such forward-looking statements.

These factors include risks and uncertainties related to, among other things:

- The proposed spin-off of the Specialty Generics/API (Specialty Generics) business inclusive of Mallinckrodt's AMITIZA® (lubiprostone) product, including the costs associated with the contemplated separation and spin-off, the expected benefits of the transaction, and the expected timeframe to complete such a transaction;
- General economic conditions and conditions affecting the industries in which Mallinckrodt operates;
- Mallinckrodt's ability to obtain regulatory approval to market its products or the timing of such approval process;
- The commercial success of Mallinckrodt's products;
- Mallinckrodt's ability to realize anticipated growth, synergies and cost savings from acquisitions;
- Conditions that could necessitate an evaluation of Mallinckrodt's goodwill and/or intangible assets for possible impairment;
- · Changes in laws and regulations;

- Mallinckrodt's ability to successfully integrate acquisitions of operations, technology, products and businesses generally and to realize anticipated growth, synergies and cost savings;
- Mallinckrodt's and Mallinckrodt's licensers' ability to successfully develop or commercialize new products;
- Mallinckrodt's and Mallinckrodt's licensers' ability to protect intellectual property rights;
- Customer concentration;
- Mallinckrodt's reliance on certain individual products that are material to its financial performance;
- Cost containment efforts of customers, purchasing groups, third-party payers and governmental organizations;

Forward-looking statements



- The reimbursement practices of a small number of public or private insurers;
- Pricing pressure on certain of Mallinckrodt's products due to legal changes or changes in insurers' reimbursement practices resulting from recent increased public scrutiny of healthcare and pharmaceutical costs;
- Limited clinical trial data for H.P. Acthar® Gel:
- Complex reporting and payment obligations under healthcare rebate programs;
- Mallinckrodt's ability to navigate price fluctuations;
- Future changes to U.S. and foreign tax laws;
- Mallinckrodt's ability to achieve expected benefits from restructuring activities;
- Complex manufacturing processes;

- Competition;
- Product liability losses and other litigation liability;
- Ongoing governmental investigations;
- Material health, safety and environmental liabilities;
- Retention of key personnel;
- Conducting business internationally;
- The effectiveness of information technology infrastructure; and
- Cybersecurity and data leakage risks.

These and other factors are identified and described in more detail in the "Risk Factors" section of Mallinckrodt's Annual Report on Form 10-K for the fiscal year ended December 29, 2017. The forward-looking statements made herein speak only as of the date hereof and Mallinckrodt does not assume any obligation to update or revise any forward-looking statement, whether as a result of new information, future events and developments or otherwise, except as required by law.



Mallinckrodt Pharmaceuticals

Mark Trudeau

President and Chief Executive Officer

Mallinckrodt Pharmaceuticals: Managing complexity. Improving lives.



Strategic Vision: Innovation-driven specialty pharmaceutical growth company focused on improving outcomes for underserved patients with severe and critical conditions

Patients

- Neonates / infants
- Refractory and critically ill adults

Therapeutic Focus

- Rare, severe, and critical diseases
- Critical care, autoimmune disorders, hepato-renal, and neurology

Scientific **Platforms**

- Small/large molecules and biologics
- Regenerative cell- and tissue-based therapies
- Drug-device combinations and nitric oxide technologies

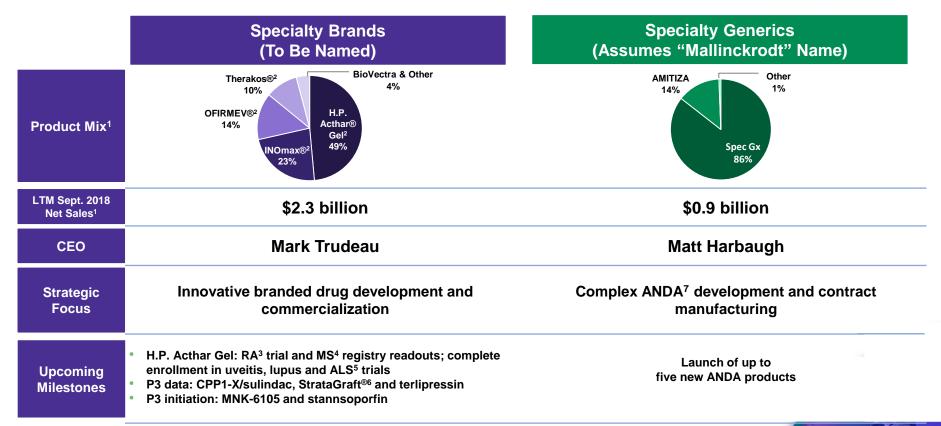
Capabilities / **Strengths**

- Commercial execution in hospital, specialty care, NICU¹, and patient services
- Development expertise in clinical data generation, label expansion, and drug-device development
- Manufacturing and supply chain

Business development and licensing Cash flow generation and cost management

Spin-off expected to create two focused, independent, well-capitalized publicly traded companies at scale

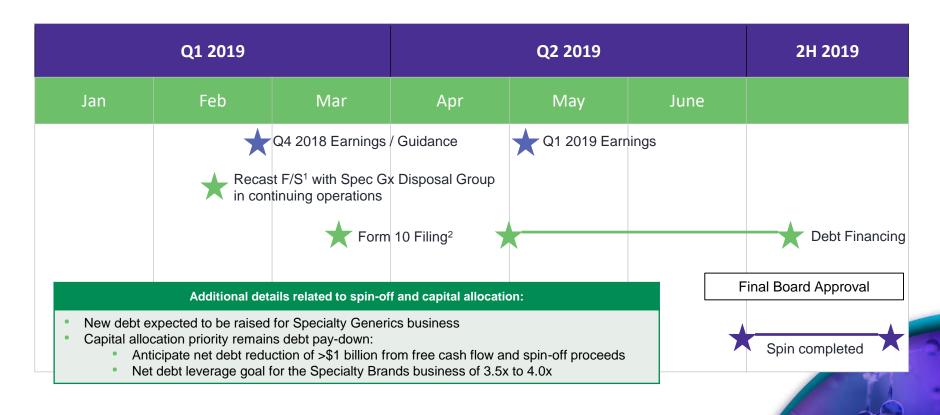




¹ Last twelve months' net sales ended September 28, 2018 on an as-reported basis, including Amitiza since February 2018; 2 H.P. Acthar Gel (repository corticotropin); INOMAX (nitric oxide) gas, for inhalation; OFIRMEV (acetaminophen) injection; Therakos immunology platform; 3 Rheumatoid Arthritis; 4 Multiple Sclerosis; 5 Amyotrophic Lateral Sclerosis; 6 StrataGraft viable engineered skin tissue 7 Abbreviated New Drug Application

Spin-off expected to be completed in the second half of 2019 or sooner





¹ Recast financial statements will include FY18 (quarterly and nine-month results through Sept. 28, 2018) and FY17 (quarterly and annual);

² Filing will include audited FY18, FY17, Transition Period 2016 (Represents the period from Oct. 1-Dec. 30, 2016) and FY16 financial information for the anticipated Specialty Generics spin-off business

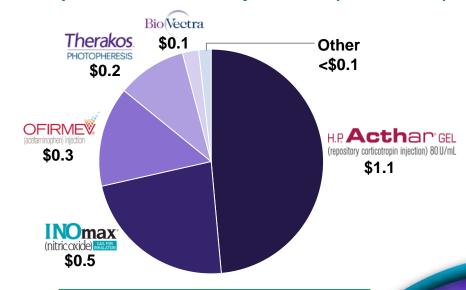
Diversified Specialty Brands business well positioned for growth



Growth Drivers

- Long-term H.P. Acthar Gel Rx demand and access driven by clinical and HEOR data generation, new product presentation and potential label expansion
- Diversified in-line Hospital portfolio and multiple potential near-term launches
- Significant R&D investment both in absolute dollars and as a percentage of net sales
- Strong capabilities across commercial, R&D, manufacturing, and business development
- Disciplined cost management and capital allocation

LTM Sept. 2018¹ Net Sales by Product (\$ in billions)



LTM Sept. 2018 Net Sales: \$2.3 billion

Robust Specialty Brands late-stage pipeline aligned with therapeutic areas of focus



Product	PreClinical	Phase 1	Phase	2 Phase 3	Registration	Indication Under Study	Diseases/Therapeutic Areas
UVADEX® (methoxsalen) sterile solution (Therakos)						Chronic GVHD¹ (Japan)	Autoimmune
VTS-270 (2-hydroxypropyl-b-cyclodextrin (HPβCD mixture) *						Niemann-Pick Disease Type C	Rare Disease & Neurology
CPP-1X-sulindac oral combina	ation			*		Familial Adenomatous Polyposis	Rare Disease
TERLIPRESSIN vasopressin a	nalog			*		HRS ² Type-1	Hepato-Renal
STRATAGRAFT® regenerative	skin tissue			*		Severe Burns, DPT³	Critical Care
XENON gas for inhalation						Post Cardiac Arrest	Critical Care
UVADEX (methoxsalen) sterile	solution (Theral	(os)				Acute GVHD (U.S.)	Critical Care
STANNSOPORFIN heme oxyge	enase inhibitor					Neonatal Hyperbilirubinemia	Critical Care
MNK-6105 (OCR-002) (ornithin	e phenylacetate) intraveno	us	,		Hepatic Encephalopathy	Hepato-Renal
STRATAGRAFT regenerative	skin tissue			,		Severe Burns, FT ⁴	Critical Care
H.P. ACTHAR® GEL (repository corticotropin injection)						ALS ⁵	Neurology
MNK-6106 (OCR-002) (ornithin	e phenylacetate) oral		*		Hepatic Encephalopathy	Hepato-Renal
MNK-1411 (cosyntropin injection	on)			,		DMD ⁶	Neurology
EXPRESSGRAFT™ anti-infective (cathelicidin) *						DFU ⁷	Critical Care
NITRIC OXIDE gas for perfusion	n *					Transplant Organ Perfusate	Critical Care
EXPRESSGRAFT pro-angiogenic (VEGF®)						TBD - Chronic Non-healing Wounds	Critical Care
EXPRESSGRAFT anti-tumor (IL-129)						TBD - Skin Cancer Recurrence	Critical Care
MP-3964 (TLR9 ¹⁰ antagonist)						Transplant Organ Perfusate & AP11	Critical Care
Device Conce	ot Planning	Develo	oment	Qualification	Registration	Details	Diseases/Therapeutic Areas
INOMAX® (Nitric Oxide) gas						Next Generation Device	Critical Care
H.P. ACTHAR® GEL(repository corticotropin injection)						Alternative Delivery Device	Autoimmune
NITRIC OXIDE gas for perfusio	n					Organ Transplant Device	Critical Care

¹ Graft vs Host Disease

8 Vascular Endothelial Growth Factor

² Hepatorenal Syndrome 6 Duchenne Muscular Dystrophy

³ Deep Partial Thickness 7 Diabetic Foot Ulcers

⁴ Full Thickness

⁵ Amyotrophic Lateral Sclerosis

⁹ Interleukin 10 Toll-like Receptor 11 Acute Pancreatitis

^{*} Anticipated data readout in 2019

Key pipeline products in mid- to late-stages expected to diversify commercial portfolio



Program	Clinical Status	Est. Launch	Est. Exclusivity	Est. Global Peak Net Sales ¹
VTS-270	Phase 3	2020	2027	>\$150mm
Terlipressin	Phase 3	2020	2027	>\$300mm
StrataGraft	Phase 3	2020	2032	>\$150mm
CPP-1X / sulindac	Phase 3	2020	2027	>\$300mm
Xenon gas	Phase 3	2021	2028	>\$300mm
Stannsoporfin	Phase 3	2023	2032	>\$125mm
MNK-6105 (IV) and MNK-6106 (oral)	Phase 2 / Phase 2	2023 / 2024	2029	>\$500mm

Pipeline expected to drive future growth, contributing greater than 20% of Specialty Brands net sales in 2023

Several R&D collaborations in place, including Washington University in St. Louis, to drive early discovery and pipeline development

Next-generation INOmax EVOLVE™, H.P. Acthar Gel selfinjector expected to improve current product offerings



New **INOmax EVOLVE** delivery device designed to improve operational efficiency and advance nitric oxide delivery in the hospital setting.

EVOLVE

Current product

EVOLVE:

~1lb per cylinder





- Reduce human error potential through automation
- Provide improved technological and safety features
- Reduce time between diagnosis and treatment through quick, automated set-
- Increase number of patients and settings for treatment
- Increase mobility and transportability ease





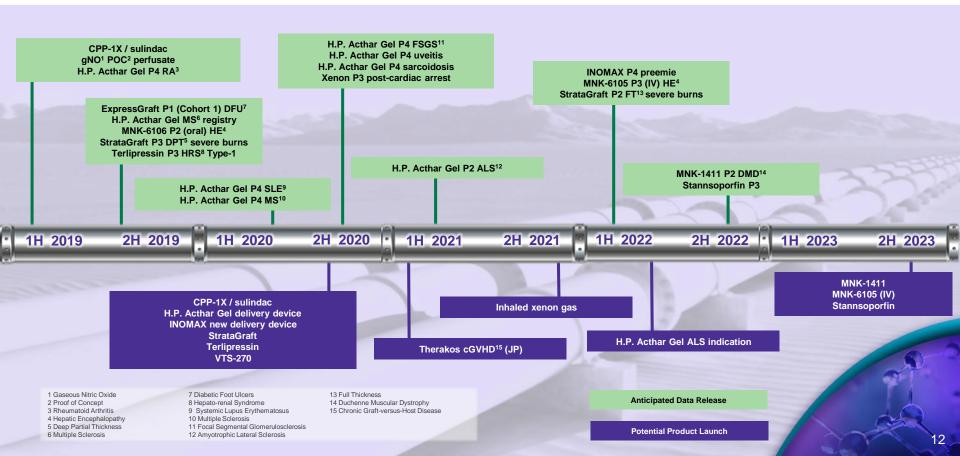
- H.P. Acthar Gel self-injector designed to enhance customer-focused delivery:
 - Easier use for patients with dexterity or vision challenges
 - Single patient-specific dose; no need to draw the product from the current multi-dose vial
- Expected to offer subcutaneous injection system for all currently approved indications except Infantile Spasms
- Provides potential benefit over future competitive ACTH agents, if approved
- Furthers MNK's strategy to generate considerable new data for the product and an improved product presentation



H.P. Acthar Gel self-injector expected to further clinical use and patient experience with the product

Significant anticipated development catalysts and potential product launches over next five years





Focused on increasing stakeholder value via sustainable organic growth

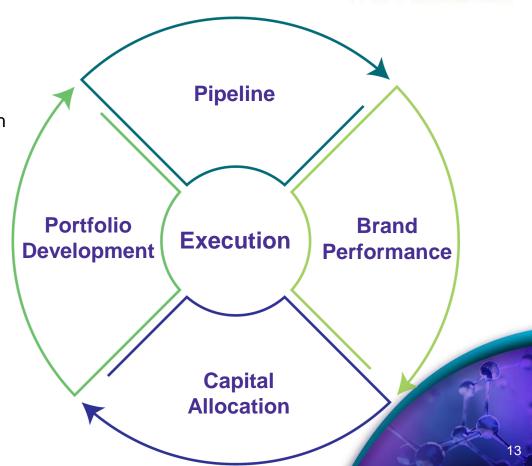


Strategic vision:

Innovation-driven specialty pharmaceutical growth company focused on improving outcomes for underserved patients with severe and critical conditions

Strategic Priorities for 2019:

- Maximize value of diversified, inline portfolio
- Advance further data generation and pipeline
- Complete Specialty Generics spin-off
- Execute disciplined capital allocation, with net debt reduction the primary focus





Thank You

